

AMENDMENTS TO THE SPECIFICATION

Please cancel the paragraph beginning at page 104, line 4 and replace as follows:

There is provided a A method for implementing virtual bases with fixed offsets in a class hierarchy graph, having nodes representing object classes and edges representing immediate inheritance therebetween, corresponding to an object oriented program. ~~The graph has nodes representing object classes and edges representing immediate inheritance therebetween. The method includes the step of determining whether a set N including all nodes is empty, the set N including all nodes in the graph. A node x is removed from the set N, when the set N is not empty. It is determined whether a set Y is empty, the set Y including nodes that directly and virtually inherit from the node x. When Y is empty, A return is made to the step of determining whether the set N is empty, when the set Y is empty. otherwise A a node y is removed from the set Y, when the set Y is not empty. It is determined whether the node y is duplicated in the graph. When y is duplicated, A return is made to the step of determining whether the set Y is empty, when the node y is duplicated. otherwise An an edge e, representing that y virtually inherits from x, is replaced with an edge e', when the node y is not duplicated representing that x has a fixed offset with respect to y. The edge e represents that the node y virtually inherits from the node x. The edge e' represents that the node x has a fixed offset with respect to the node y. Upon replacing e, A return is made to the step of determining whether the set N is empty, upon replacing the edge e.~~